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Contract RD-915A, Report.	, Marine Crystal Video, Trip an	d Progress
ent to determine th	ry and 1 February the writer vine status of the subject contra	isited the ct. Those
raine how these units with the writer experience with the spare units will make the spare of 750 kc and to allow for sic system. Addition to spare to be provided also be smanded	terms of this contract. In an its might be obtained on a price people, it was decided the people, it was decided the ill be started immediately so the possible an immediate delived bandwidth type. The contract additional units to be furnishing antennas in the L. S. and the allow for more antenna spantonal	to a type being affort to de- crity basis from rement. In dis- at fabrication that these items as of spare ary of 18 pre- is to be the with the ix bands are the contract
	Costract RD-915A; Report. 1. On 31 James and to determine the seent were: 2. The KLINT As at need for transis veloped under the raine how these units who writer end the spare units who has a so going to be provided to allow for sic system. Addition to be spared.	Contract RD-915A, Merine Crystal Video, Trip at Report. 1. On 31 January and 1 February the writer visuant to determine the status of the subject contract were: 2. The KLINT Activities Branch of SPD has intered for transistor video amplifiers similar veloped under the terms of this contract. In an raine how these units might be obtained on a price the writer explored various means of procur

3. Two complete channels of a representative band have been fabricated. This includes all circuit functions from the crystal preceeding the pre-emplifier through all emplifiers to the plates of the cathode ray tube. The operation of this was demonstrated to the writer, who was allowed to conduct certain tests on it. The operation of this unit appears to be very satisfactory. As the relative level signal in each channel was changed, it was noted that the seimuth indication on the oscilloscope changed accordingly. It was noted, however, that for extremely short pulses on a very low repetition rate, there was an error in apparent azimuth of about 10 degrees. This, however, is an impossible condition which does not exist in practice. For all normal pulse widths and repetition rates, the azimuth indications are reasonably accurate.



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4. The method of calibration of each channel within each band was discussed and the memner in which it is to be accomplished. In all previous discussions the writer had based most thoughts upon the fact that certain of the balance controls would be accessible from the front penel. It was, therefore, with considerable ourprise that it was learned that all balance controls are contained within the internal chassis. It is therefore sacessary to remove one of the oscilloscope sub-assemblies from the commole in order to make any adjustments. The button which controls the calibrator itself is located on the front passl, while the balance contrels are located on the side of the chassis, approximately half-way back. In order to make this adjustment, it is necessary to loosen the four captive screws holding the sub-assembly within the console, completely remove the unit from the console, and connect it to the plug by means of an adaptor cable. In this position, it will then be possible to actuate the calibrator and perform the necessary adjustments to the calibratica potentiemsters. The writer questioned the advisability of this, and suggested that a more suitable location for these adjustments would be on the front panel of the unit. Note Paragraph 10 of the attachment. The project engineer, was rather adment in his position in stating that the design work had been completed and it would be impossible to make any changes, as there was no space available. The writer does not consider that a breadboard layout and an engircering sketch is sufficient proof to support a statement of a was unable to furnish further evidence. fixed layout. Therefore, the writer took the position that ie to investigate the possibility of moving certain of the balance controls to the front penels so that they may be accessible at times when they may be needed.

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5. The question of shutters for the entenna was discussed. has investigated the various electro-machinical solenoids and other relays which may be used to operate crystal shutters in the high-bend entennes end has found that the power required to operate these units far exceeds the total requirements of the entire system in the other electronic circuitry. Therefore, they have requested permission to investigate mechanical means of closing a shutter. This could be accomplished in several ways, but chiefly by the use of a flexible cable. The writer took the position that such a means would be feasible only if a single movement of a single central would operate all shutters, electrical and mechanical. Please note Paragraph 15 of the attachment.

6. In general, the progress of this contract has been satis-Certain delays have been encountered, of which the most serious was the difficulty in get-

ting the present engageent to the contract for the calibration and filter system. This omendment is dated 1 February 1956. However,

factory, both at

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25X1 in checking with on 10 February, the paper had not yet reached them. It is believed that 25X1 will have the authorization to proceed work during the week of 13 February. In other respects, the writer has felt certain dissetisfaction with the progress. This has been noticed in two particular directions. The first is a lack of overall organization, although independent groups operating on the various problems have done excellent jobs of solving their particular phase of the work. 7. This was most noticeable during the period that the Section Regimeer, 25X1 was handling this project. More recently, 25X1 has taken over the overall direction of this project. It was noted that a much better organizational setup was accomplished under 25X1 It was since learned that 25X1 has left the organization. It is helieved, and hoped, that the progress will stabilize as soon as 25X1 CAT become more fully sware of all of the problems. The second point of dissatisfaction concerns the project engineer. 25X1 25X1 The writer does not question engineering capabilities; however, he appears to have little imagination and appears to be rather stereotyped in his thinking and his approach to problems. The writer has on many occasions found it extremely difficult to have certain problems considered. This is not made easier by the fact that many of the situations must, by necessity, be clothed in security regulations, in which the writer is unable to reveal the reason and necessity for certain approaches. The writer, however, does not consider a lack of total knowledge of a problem as reason to refuse consideration of that problem. This discatisfaction with the project has been brought unofficially to the attention of the 25X1 through discussions the writer has held with 25X1 the local representative. It may be noted that 25X1 generally agrees with the writer in his observations. 25X1 Attachment: 25X1 Minutes of Meeting of 1 February 1956. OC-E/RAD-EP/FCS:mmb (17 February 1956) CC: Monthly Report (2) R&D Subject File B&D-IP OC-OST OC-SP/EA Dev-ep